

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. – 4. (Canceled)

5. (Currently Amended) An image pickup apparatus having a moving-picture pickup mode in which a moving picture is picked up and a still-picture pickup mode in which a still picture is picked up, the apparatus comprising:

an interline type charge-coupled device having a frame in which a first plurality of lines each having a first plurality of pixels are arranged and the first plurality of lines include a second plurality of pixels, and mixing and reading out a third plurality of pixels that extend over a second plurality of lines among the first plurality of lines in the moving-picture pickup mode;

~~incident light quantity adjusting means for adjusting an iris mechanism that adjusts a~~ quantity of light incident upon the charge-coupled device;

~~driving means for driving the incident light quantity adjusting means;~~

an iris driver that drives the iris mechanism;

~~control means for controlling the driving means a controller that controls the iris driver to allow the incident light quantity adjusting means iris mechanism to function as a mechanical shutter and intercept the incident light upon the charge-coupled device when the moving-picture pickup mode is replaced with the still-picture pickup mode;~~

a field image reading-out means for unit that sequentially reading reads out a first field image and a second field image without mixture, wherein the first field image comprises lines each being one of respective adjacent two lines of the first plurality of lines of a frame image read out from the charge-coupled device before the incident light quantity adjusting means irisng mechanism intercepts the incident light upon the charge-coupled device and the second field image comprises lines each being the other of the respective adjacent two lines; and

a still-picture generating means for adding generator that adds the first field image and the second field image to generate a still-picture frame image.

6. (Currently Amended) The image pickup apparatus according to claim 5, further comprising:

a memory means for storing unit that stores pixel data that corresponds to the frame image read out from the charge-coupled device before the incident light quantity adjusting means irisng mechanism intercepts the incident light upon the charge-coupled device,

wherein the field image reading-out means unit reads out the first and second field images based on the pixel data that corresponds to the frame image stored in the memory means unit.

7. (Currently Amended) The image pickup apparatus according to claim 5, further comprising:

display format converting means for converting a first picture display format into a second picture display format with respect to the pixel data that corresponds to the frame image read out

~~from the charge-coupled device before the incident light quantity adjusting means intercepts the incident light upon the charge-coupled device.~~

a first picture-display format converter that decreases a horizontal pixel density of the still-picture frame image having a first picture-display format generated by the still-picture generator to convert the first picture-display format thereof into a second picture-display format;

a second picture-display format converter that increases the horizontal pixel density of the still-picture frame image having the second picture-display format to convert the second picture-display format thereof into the first picture-display format.

8. (Currently Amended) The image pickup apparatus according to claim 6, further comprising:

~~display format converting means for converting a first picture display format into a second picture display format with respect to the pixel data that corresponds to the frame image read out from the charge-coupled device before the incident light quantity adjusting means intercepts the incident light upon the charge-coupled device.~~

a first picture-display format converter that decreases a horizontal pixel density of the still-picture frame image having a first picture-display format generated by the still-picture generator to convert the first picture-display format thereof into a second picture-display format;

a second picture-display format converter that increases the horizontal pixel density of the still-picture frame image having the second picture-display format to convert the second picture-display format thereof into the first picture-display format.

9. (Currently Amended) The image pickup apparatus according to claim 7, wherein ~~the display format converting means comprises horizontal pixel density converting means that converts the first picture display format that does not indicate a tetragonal lattice into the second picture display format that indicates the tetragonal lattice~~ the first picture-display format converter converts the first picture-display format that does not indicate a tetragonal lattice into the second picture-display format that indicates the tetragonal lattice and the second picture-display format converter converts the second picture-display format that indicates the tetragonal lattice into the first picture-display format that does not indicate the tetragonal lattice.

10. (Currently Amended) The image pickup apparatus according to claim 8, wherein ~~the display format converting means comprises horizontal pixel density converting means that converts the first picture display format that does not indicate a tetragonal lattice into the second picture display format that indicates the tetragonal lattice~~ the first picture-display format converter converts the first picture-display format that does not indicate a tetragonal lattice into the second picture-display format that indicates the tetragonal lattice and the second picture-display format converter converts the second picture-display format that indicates the tetragonal lattice into the first picture-display format that does not indicate the tetragonal lattice.

11. (Previously Presented) The image pickup apparatus according to claim 5, wherein the second plurality of lines are two lines adjacent to each other in the vertical direction and the third plurality of pixels are two pixels adjacent to each other in the vertical direction.